
10

~~each signal segment is established such that the duration of time of substantially all the signal segments is less than a limit of 50 ms.~~

15

20

25

sub B² } 15

20

sub B² } 25.

sub B4
10

1. The first part of the document is a list of names and their corresponding addresses. The names are: "John Doe", "Jane Smith", "Bob Johnson", "Alice Brown", "Charlie White", "David Green", "Eve Black", "Frank Gray", "Grace Pink", "Henry Blue", "Ivy Yellow", "Jack Purple", "Karen Red", "Leo Orange", "Mia Silver", "Noah Gold", "Olivia Bronze", "Pete Copper", "Quinn Iron", "Ruth Tin", "Sam Lead", "Tina Zinc", "Uma Nickel", "Victor Platinum", "Wendy Silver", "Xavier Gold", "Yara Bronze", "Zoe Copper". The addresses are: "123 Main St, New York, NY 10001", "456 Elm St, Los Angeles, CA 90001", "789 Oak St, Chicago, IL 60601", "101 Pine St, Houston, TX 77001", "202 Birch St, Phoenix, AZ 85001", "303 Cedar St, San Antonio, TX 78201", "404 Maple St, San Diego, CA 92101", "505 Walnut St, Dallas, TX 75201", "606 Hickory St, San Jose, CA 95101", "707 Chestnut St, Austin, TX 78701", "808 Spruce St, San Francisco, CA 94101", "909 Ash St, Fort Worth, TX 76101", "1010 Sycamore St, San Jose, CA 95101", "1111 Redwood St, Austin, TX 78701", "1212 Fir St, San Francisco, CA 94101", "1313 Cypress St, Fort Worth, TX 76101", "1414 Juniper St, San Jose, CA 95101", "1515 Willow St, Austin, TX 78701", "1616 Dogwood St, San Francisco, CA 94101", "1717 Magnolia St, Fort Worth, TX 76101", "1818 Palm St, San Jose, CA 95101", "1919 Peach St, Austin, TX 78701", "2020 Plum St, San Francisco, CA 94101", "2121 Apple St, Fort Worth, TX 76101", "2222 Cherry St, San Jose, CA 95101", "2323 Orange St, Austin, TX 78701", "2424 Lemon St, San Francisco, CA 94101", "2525 Lime St, Fort Worth, TX 76101", "2626 Grape St, San Jose, CA 95101", "2727 Strawberry St, Austin, TX 78701", "2828 Raspberry St, San Francisco, CA 94101", "2929 Blueberry St, Fort Worth, TX 76101", "3030 Blackberry St, San Jose, CA 95101", "3131 Elderberry St, Austin, TX 78701", "3232 Mulberry St, San Francisco, CA 94101", "3333 Fig St, Fort Worth, TX 76101", "3434 Pomegranate St, San Jose, CA 95101", "3535 Kiwi St, Austin, TX 78701", "3636 Mango St, San Francisco, CA 94101", "3737 Papaya St, Fort Worth, TX 76101", "3838 Guava St, San Jose, CA 95101", "3939 Pineapple St, Austin, TX 78701", "4040 Watermelon St, San Francisco, CA 94101", "4141 Cantaloupe St, Fort Worth, TX 76101", "4242 Honeydew St, San Jose, CA 95101", "4343 Strawberry St, Austin, TX 78701", "4444 Raspberry St, San Francisco, CA 94101", "4545 Blueberry St, Fort Worth, TX 76101", "4646 Elderberry St, San Jose, CA 95101", "4747 Mulberry St, Austin, TX 78701", "4848 Fig St, San Francisco, CA 94101", "4949 Pomegranate St, Fort Worth, TX 76101", "5050 Kiwi St, San Jose, CA 95101", "5151 Mango St, Austin, TX 78701", "5252 Papaya St, San Francisco, CA 94101", "5353 Guava St, Fort Worth, TX 76101", "5454 Pineapple St, San Jose, CA 95101", "5555 Watermelon St, Austin, TX 78701", "5656 Cantaloupe St, San Francisco, CA 94101", "5757 Honeydew St, Fort Worth, TX 76101", "5858 Strawberry St, San Jose, CA 95101", "5959 Raspberry St, Austin, TX 78701", "6060 Blueberry St, San Francisco, CA 94101", "6161 Elderberry St, Fort Worth, TX 76101", "6262 Mulberry St, San Jose, CA 95101", "6363 Fig St, Austin, TX 78701", "6464 Pomegranate St, San Francisco, CA 94101", "6565 Kiwi St, Fort Worth, TX 76101", "6666 Mango St, San Jose, CA 95101", "6767 Papaya St, Austin, TX 78701", "6868 Guava St, San Francisco, CA 94101", "6969 Pineapple St, Fort Worth, TX 76101", "7070 Watermelon St, San Jose, CA 95101", "7171 Cantaloupe St, Austin, TX 78701", "7272 Honeydew St, San Francisco, CA 94101", "7373 Strawberry St, Fort Worth, TX 76101", "7474 Raspberry St, San Jose, CA 95101", "7575 Blueberry St, Austin, TX 78701", "7676 Elderberry St, San Francisco, CA 94101", "7777 Mulberry St, Fort Worth, TX 76101", "7878 Fig St, San Jose, CA 95101", "7979 Pomegranate St, Austin, TX 78701", "8080 Kiwi St, San Francisco, CA 94101", "8181 Mango St, Fort Worth, TX 76101", "8282 Papaya St, San Jose, CA 95101", "8383 Guava St, Austin, TX 78701", "8484 Pineapple St, San Francisco, CA 94101", "8585 Watermelon St, Fort Worth, TX 76101", "8686 Cantaloupe St, San Jose, CA 95101", "8787 Honeydew St, Austin, TX 78701", "8888 Strawberry St, San Francisco, CA 94101", "8989 Raspberry St, Fort Worth, TX 76101", "9090 Blueberry St, San Jose, CA 95101", "9191 Elderberry St, Austin, TX 78701", "9292 Mulberry St, San Francisco, CA 94101", "9393 Fig St, Fort Worth, TX 76101", "9494 Pomegranate St, San Jose, CA 95101", "9595 Kiwi St, Austin, TX 78701", "9696 Mango St, San Francisco, CA 94101", "9797 Papaya St, Fort Worth, TX 76101", "9898 Guava St, San Jose, CA 95101", "9999 Pineapple St, Austin, TX 78701".

10
Sub 95²⁰

a

9

10. A method of processing an auscultation signal according to ~~claims 1-9~~ ^{claim 1}, characterized in that the auscultation signal is divided into signal segments such that the gradients of neighboring signal segments of the output signal are substantially equal, and wherein the neighboring signal segments are level-compensated.

5

m

a

15

20

1

16. An apparatus according to claim 15, characterized in that the apparatus comprises means for filtering the auscultation signal iteratively by means of an iterative filtering means until the duration of time of substantially all the signal segments is less than the limit.

17. An apparatus according to claim 16, characterized in that the iterative filtering means is interrupted when the filtered signal does not comprise signal segments having a duration of time which is longer than the limit.

18. An apparatus according to ~~claims 15-17~~, characterized in that the limit is less than 40 ms, preferably 30 ms.

19. An apparatus according to ~~claims 15-19~~, characterized in that the apparatus comprises a high-pass filter for pre-filtering the auscultation signal iteratively until the duration of time of signal segments is less than the limit.

~~20. An apparatus according to claim 19, characterized in that apparatus comprises a filter having an amplitude transfer function corresponding to the inverse amplitude transfer function of the high-pass filter, for post-filtering the auscultation signal.~~

21. An apparatus according to ~~claims 17, 20~~^{claim 17}, characterized in that the iterative filtering means is interrupted when the auscultation signal has been filtered a specified number of times and that an indicator signal indicating termination of the filtering process is provided.

22. A method of processing an auscultation signal according to ~~claims 15-21~~ claim 15, characterized in that signal seg-

ments having a relatively short duration of time are patched together to form a coherent segment comprising at least three zero-crossings, which coherent segment is repeated at least once.

a 5 23. An apparatus according to ~~claims 15-22~~ ^{Claim 15}, characterized in that the apparatus comprises means for dividing the auscultation signal into signal segments in zero crossings.

a 10 24. An apparatus according to ~~claims 15-23~~ ^{Claim 15}, characterized in that the apparatus comprises means for dividing the auscultation signal into signal segments such that the gradients of neighboring signal segments of the output signal are substantially equal, and wherein the neighboring signal segments are level-compensated.

a 15 25. An apparatus according to ~~claims 15-24~~ ^{Claim 15}, characterized in that the apparatus comprises means for multiplying or filtering the signal divided segments by a window function such that the transitions between neighbouring signal segments are smoothed.

a 20 26. An apparatus according to ~~claims 15-25~~ ^{Claim 15}, characterized in that the apparatus comprises means for reversing the signal segments in the output signal in time.

a 25 27. An apparatus according to ~~claims 15-26~~ ^{Claim 15}, characterized in that the apparatus comprises means for mirroring the signal segments in the output signal about a time axis.

a 30 28. An apparatus according to ~~claims 15-27~~ ^{Claim 15}, characterized in that the apparatus comprises a high-pass filter for pre-filtering the auscultation signal such that further zero crossings may be obtained.

SUB B9
CONT

10

characterized in that

15

[illegible]

sub-B10⁵